

Entry 6 of 26

File: USPT

May 11, 1999

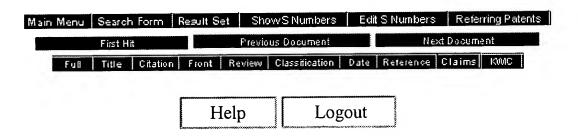
DOCUMENT-IDENTIFIER: US 5903830 A TITLE: Transaction security apparatus and method

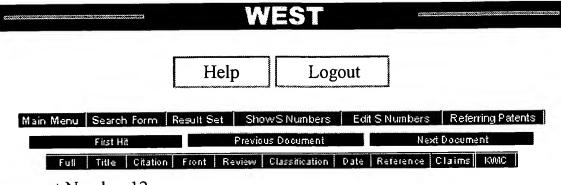
BSPR:

The central processing computer may also perform a test in order to determine if the predetermined maximum number of unauthorized transactions have occurred on the account. If any of the above listed conditions are found to exist (i.e. card is lost, stolen, cancelled and/or de-activated, or <u>credit</u>, charge or debit account <u>limit</u> has been reached or exceeded, currency value depleted, or unauthorized transaction <u>limit</u> reached or exceeded), the central processing computer may transmit a signal to the point-of-sale terminal indicating that the transaction is not approved and/or is not authorized. The point-of-sale terminal operator may then cancel the transaction. The point-of-sale terminal operator may then confiscate the card and/or <u>alert</u> the authorities.

DEPR:

If any of the above listed conditions exist (i.e. card is lost, stolen, cancelled and/or de-activated, or credit, charge or debit <u>limit</u> is reached and/or exceeded, currency value depleted, unauthorized transaction <u>limit</u> reached or exceeded <u>limitations</u> and/or restrictions violated, etc.), the central processing computer 3 will, at step 35, transmit a signal to the point-of-sale terminal 2 indicating that the transaction is not approved and/or is not authorized. The point-of-sale terminal operator may then cancel the transaction, at step 36. The point-of-sale terminal operator may then confiscate the card and/or <u>alert</u> the authorities. Upon the completion of step 36, the apparatus will cease operation at step 55.





Entry 12 of 26 File: USPT Oct 14, 1997

DOCUMENT-IDENTIFIER: US 5677945 A

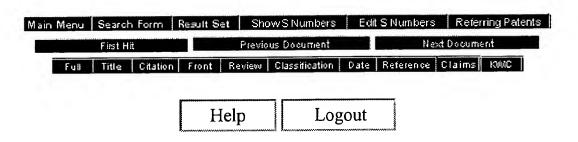
TITLE: Account balancing and monitoring system for a telecommunications network

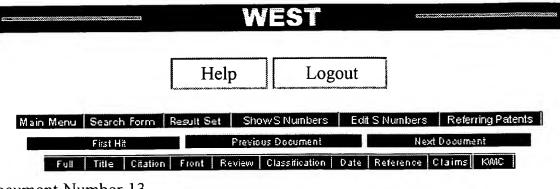
BSPR:

However, simply establishing a local process to monitor the balance during a telephone call does not solve all of the potential problems, because the possibility exists that the account may become corrupted due to attempts by multiple users to use the same credit or debit account at approximately the same time. In such cases, two callers competing for the same credit or debit balance at the same time complicates monitoring of balances. Further, notifying or interrupting the caller when the balance is nearly used up would involve an extensive logical process, such that the balance could be used up before the process was completed. Accordingly, a prepaid telecommunications system which <u>limits</u> use of system resources in monitoring credit or debit balances of prepaid services, locks out multiple use of a balance and provides a warning announcement when the balance on a card is approaching zero would enhance the utility of such services and improve the performance of telecommunications systems.

BSPR:

These and other objects are met in the present invention which comprises means to retrieve a subscriber's balance data from a central database corresponding to the subscriber's <u>credit</u> or debit account at the initiation of a call; means to set a status flag at the central database indicating that a call is in progress for that account; means to locally monitor the telephone call and to present an alarm when the call has approached a <u>limit</u>; means to announce the termination of the call and/or block the call when the call has reached a further <u>limit</u>; and means to update the balance in the central database and to change the status flag upon completion (or termination) of the call.





Entry 13 of 26 File: USPT Mar 25, 1997

DOCUMENT-IDENTIFIER: US 5615408 A

TITLE: Apparatus and method for credit based management of telecommunication activity

DEPR:

In operation, the credit risk manager 131 periodically obtains updated credit scores from a credit bureau for each subscriber and determines whether the credit risk associated with each subscriber has changed. If the risk has changed, the <u>credit</u> risk manager may adjust the <u>credit limit</u> being provided to the subscriber accordingly and/or initiate other activity, such as causing an <u>alert</u> to be generated, notifying the telecommunications services provider or carrier of the change, or adjusting the time period for updating the <u>credit</u> scores of a subscriber.

DEPR:

Referring to FIG. 4A, if the event type did not match at step S482, the <u>alert</u> manager procedure flows to step S486. At this step, if the event type is a <u>credit limit</u> event, the procedure flows to step S488 where the Analyze <u>Credit Limit</u> Event service analyzes the incoming event.

DEPR:

Referring to FIG. 4D, the Analyze <u>Credit Limit</u> Event service S488 generates a new <u>credit limit alert</u> for every incoming <u>credit limit</u> event. Upon receiving the event context data structure as an argument, the service generates a "<u>credit limit</u>" alert at step S544 by adding a new entry with <u>alert</u> type "<u>credit limit</u>" to the alerts database for this particular subscriber ID.

DEPR:

Referring to FIG. 4M, the Analyze <u>Credit</u> Risk Event service S900 generates a new <u>credit limit alert</u> for every incoming <u>credit limit</u> event. Upon receiving the event context data structure as an argument, the service generates a "credit risk" <u>alert</u> at step S902 by adding a new entry with <u>alert</u> type "credit risk" to the alerts database for this particular subscriber ID.

DEPR:

Next, at step S720, for each of the uncleared <u>alerts</u> retrieved at step S718, a corresponding <u>alert-type</u> is "volunteered"--or offered as information--to the inference engine. The twenty available <u>alert-types</u> are as follows: (1) suspect termination, (2) suspect country code, (3) <u>credit limit</u>, (4) simultaneous call, (5) geographic dispersion, (6) daily threshold, (7) daily international threshold, (8) five-day average threshold, (9) international five-day average threshold, (10) ten-day average threshold, (11) international ten-day average threshold, (12) 3-in-5 velocity, (13) doubling velocity, (14) 3-in-5 international velocity, (15) doubling international velocity, (16) 3-in-5 duration, (17) doubling duration, (18) 3-in-5 international duration, (19) doubling international duration, and (20) <u>credit</u> risk.

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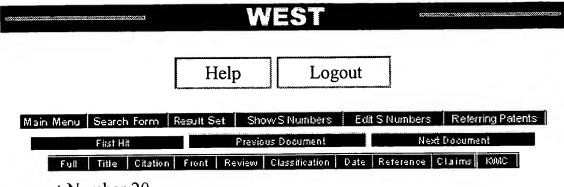


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USPT	credit with limit\$	1386	<u>L19</u>
USPT	19 same 117	66	<u>L18</u>
USPT	110 same 16	90184	<u>L17</u>
USPT	billing adj (system\$ or server\$)	758	<u>L16</u>
USPT	113 same 114	5	<u>L15</u>
USPT	internet or web\$	167388	<u>L14</u>
USPT	111 same 112	191	<u>L13</u>
USPT	telephone\$ or phone\$	84779	<u>L12</u>
USPT	19 same 110	1269	<u>L11</u>
USPT	alert\$ or inform\$	469492	<u>L10</u>
USPT	(credit\$ or transaction\$ or usage) with limit\$	8264	<u>L9</u>
USPT	11 same 17	64	<u>L8</u>
USPT	(alert\$ or inform\$) with limit\$	30333	<u>L7</u>
USPT	14 same 15	10	<u>L6</u>
USPT	limit\$	1679734	<u>L5</u>
USPT	internet adj (telephone\$ or phone\$)	159	<u>L4</u>
USPT	11 same 12	1	<u>L3</u>
USPT	billing with criteria\$	71	<u>L2</u>
USPT	event\$ with monitor\$	11217	<u>L1</u>



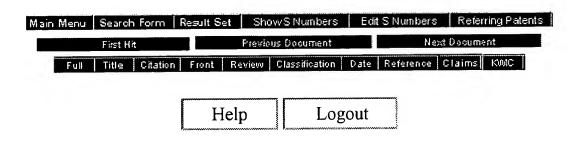
Entry 20 of 64 File: USPT May 5, 1998

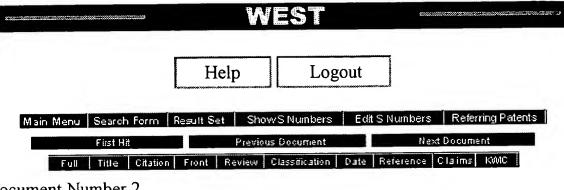
DOCUMENT-IDENTIFIER: US 5749075 A

TITLE: Method for providing prepaid internet access and/or long distance calling including the distribution of specialized calling cards

BSPR:

The principle objects and advantages of the invention include: to provide an improved method of retailing a specialized calling card or of featuring a sponsor's products or services by providing a free specialized calling card to a consumer which allows either of a limited Internet access time or ordinary long distance calling, to provide such an improved method in which the recipient of the prepaid calling card is given the option of ordering free or low cost Internet access software for a PC which interfaces the PC with an Enhanced Entry Server to provide access to the Internet; to provide such a method in which a unique PIN number is associated with the prepaid calling card, which PIN number entitles the user to the limited Internet access time and/or calling time; to provide such a method in which the Enhanced Entry Server prompts a user of the Internet access software, upon initial dial-up, to register by answering a series of queries which can include customized survey questions in the event of a sponsor promotion; to provide such a method in which the user, once the queries are answered, is optionally given a mandatory "guided tour" of the sponsor's home page and domain prior to being given general "browsing" access to the Internet, to provide such a method in which any browsing done by the user can also be monitored and reported back to the sponsor for additional marketing information; to provide such a method in which, when the initial allotted time is used up, the user is given one or more options to acquire additional Internet access time; and to provide such a method which achieves effective exposure and marketing of a sponsor's products or services with minimal expense.





Entry 2 of 10

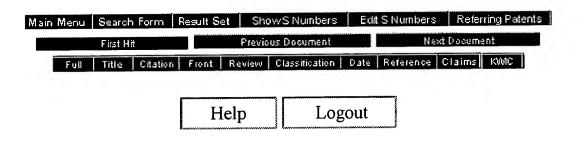
File: USPT

Feb 1, 2000

DOCUMENT-IDENTIFIER: US 6021433 A TITLE: System and method for transmission of data

DEPR:

Data from the information sources is packed into 8-bit binary format data blocks in the central broadcast server 34. The two basic data block types are illustrated in FIGS. 5 and 6. In particular, FIGS. 5-1 and 5-2 defines the 8-bit binary format for "information" notification data blocks while FIG. 6 defines the 8-bit binary format for "personal alert" notification data blocks. Information notification data blocks, illustrated in FIGS. 5-1 and 5-2, contain general information targeted to all users, including but not limited to news headlines and stories, sports scores, financial market data, and so forth. Personal alert notifications, illustrated in FIG. 6, contain alert information targeted to specific users, including but not limited to notifications regarding E-mail arrival, stock prices reaching specified values, Internet telephone calls, chats or meeting notices.



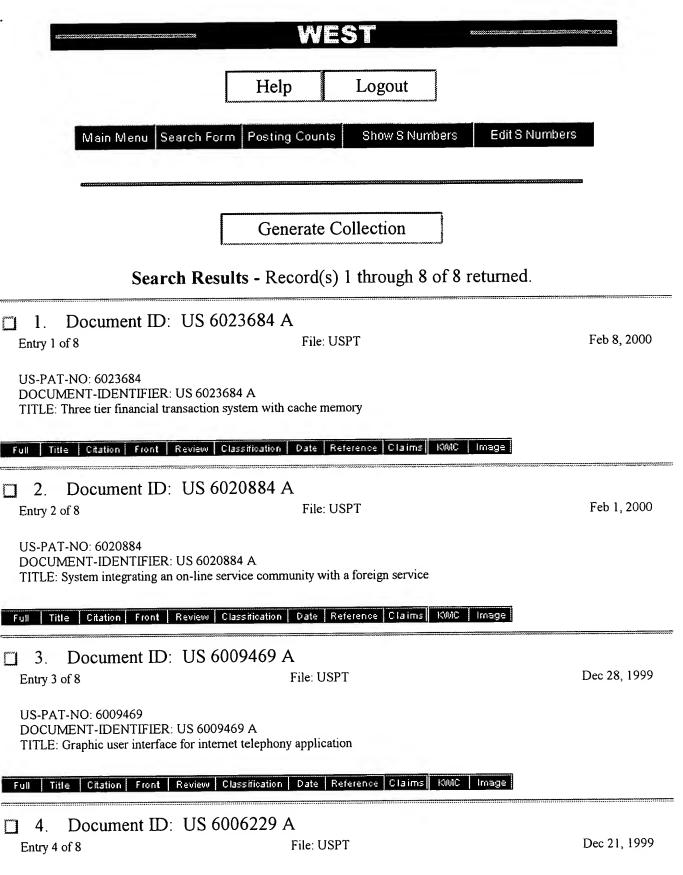
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USPT	internet	6738	<u>L2</u>
USPT	(open adj data adj base adj connectivity) or odbc or (open adj database adj connectivit\$)	208	<u>L1</u>



US-PAT-NO: 6006229

DOCUMENT-IDENTIFIER: US 6006229 A TITLE: Xbase transaction processing system

